(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 6 May 2005 (06.05.2005)

(10) International Publication Number WO 2005/039745 A1

- (51) International Patent Classification7: B01F 3/08, 5/16, 7/00, 13/10, B01J 27/138, 37/00, F04D 1/06
- (21) International Application Number:

PCT/EP2004/010943

(22) International Filing Date:

30 September 2004 (30.09.2004)

(25) Filing Language:

03103838.3

60/512,640

English

(26) Publication Language:

English

(30) Priority Data:

16 October 2003 (16.10.2003) 20 October 2003 (20.10.2003)

(71) Applicant (for all designated States except US): BASELL POLIOLEFINE ITALIA S.p.A. [IT/IT]; Via Pergolesi 25, I-20124 Milano (IT).

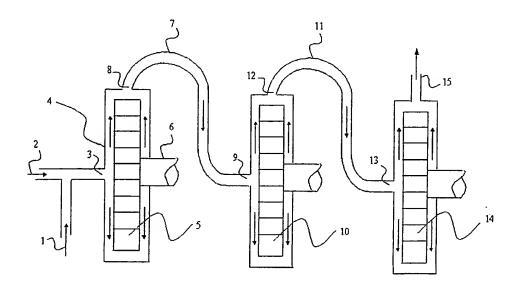
(72) Inventors: and

(75) Inventors/Applicants (for US only): ARLETTI, Arrigo [IT/IT]; Via Mazzini, 8, I-41034 Finale Emilia - Modena (IT). VINCENZI, Paolo [IT/IT]; Via A. Gramsci, 284/A, I-45036 Ficarolo - Rovigo (IT).

- (74) Agent: SACCO, Marco; Basell Poliolefine Italia S.p.A., Intellectual Property, P.le G.Donegani 12, I-44100 Ferrara
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PROCESS FOR THE CONTINUOUS PRODUCTION OF EMULSIONS



(57) Abstract: A multistage process for the continuous production of an emulsion comprising subjecting at least two immiscible liquids to a sequence of at least two mixing stages carried out in at least two successive stator-rotor devices (4), wherein a peripheral outlet from a first statorrotor device (8, 12) is connected to an axial inlet (9, 13) in the successive stator-rotor device by means of a duct in which the Reynold number ReT inside said duct is higher than 5000, and the peripheral velocity of each rotor of said stator-rotor devices ranges from 5 to 60 m/s.



2005/039745 A1

WO 2005/039745 A1



Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



